

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 March 2004 (25.03.2004)

PCT

(10) International Publication Number
WO 2004/025887 A3

(51) International Patent Classification⁷: **H04Q 7/24**
(21) International Application Number:
PCT/US2003/028840

(22) International Filing Date:
12 September 2003 (12.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/410,537 13 September 2002 (13.09.2002) US

(71) Applicant (for all designated States except US): **STRIX SYSTEMS, INC.** [US/US]; 310 North Westlake Boulevard, Westlake, CA 91362 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **STEPHENS, Spencer** [US/US]; 4538 Ledge Avenue, Toluca Lake, CA 91602 (US). **BERG, Alexander** [US/US]; 19790 Greenbriar Drive, Tarzana, CA 91356 (US). **KALIKA, Leonid** [US/US]; 2118 Wilshire Blvd, #609, Santa Monica, CA 90403 (US). **IRANI, Cyrus** [US/US]; 1445 Via Coronel, Palos Verdes Estates, CA 90274 (US).

(74) Agents: **DALEY-WATSON, Christopher, J. et al.**; Perkins Coie LLP, 1201 Third Avenue, Suite 4800, Seattle, WA 98101-3029 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

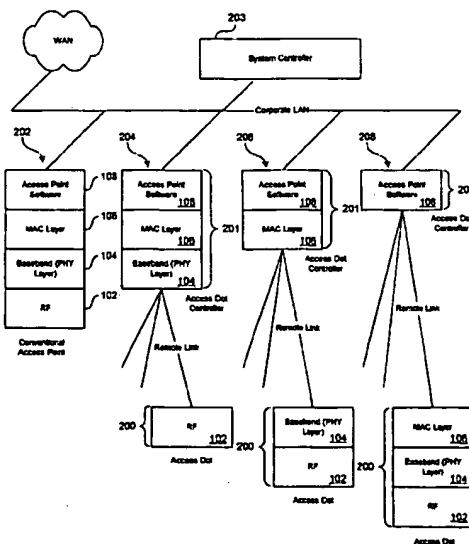
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: NETWORK ACCESS POINTS USING MULTIPLE DEVICES



(57) Abstract: A system and method for providing access to a communication network includes providing a radio node (200) comprising a first set of access point components including a radio component (102), and providing a physically separated controller node (201) in communication with the radio node (200). The access point controller (201) comprises a second set of access point components distinct from the first set of access point components, creating a distributed access point. A system controller (203) may also be used to control at least one of the radio node (200) and the controller node (201). The radio node (200), the controller node (201), and the system controller (203) communicate over a communication link, such as a wireless or wired link.



(88) Date of publication of the international search report:
22 July 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/28840

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04Q 7/24
US-CL : 370/338;455/550.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/310, 328, 338, 465, 469; 455/550.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
IEEE search terms: (blue*tooth* WITH controller*), (blue*tooth* WITH distribut*), (base*band* <near/1> controller*)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	U.S. 6,259,910 B1 (FAIRFIELD et al) 10 July 2001 (10.07.2001), figures 2 and 3.	1, 9, 10, 14, 15, 16, 19, 20, 21
Y	US 2002/0172177 A1 (GOOCH) 21 November 2002 (21.11.2002), figures 1 and 4; pages 3-4;	1-25
Y	US 2003/01440429 A1 (WU et al) 21 July 2003, figures 1-4; page 2.	1-25

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier application or patent published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

& document member of the same patent family

Date of the actual completion of the international search

14 May 2004 (14.05.2004)

Date of mailing of the international search report

03 JUN 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Perrick W. Ferris

Telephone No. 305-4750

Form PCT/ISA/210 (second sheet) (July 1998)

BEST AVAILABLE COPY